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2BVM-179

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ASME CODE BASELINE DOCUMENT

Beaver Valley Power Station - Unit No. 2  
Duquesne Light Company  
Pittsburgh, Pennsylvania

Stone & Webster Engineering Corporation  
Boston, Massachusetts

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## 1.0 PURPOSE

The purpose of this document is to identify the applicable ASME III and XI code requirements imposed on ASME components installed at Beaver Valley Power Station - Unit No. 2 (BVPS-2). This document is referenced in Table 1.7-3 and Section 3.2.2.4.1 of the BVPS-2 FSAR and is considered as part of the FSAR.

## 2.0 SCOPE

The scope of this document includes all ASME III components, parts, etc identified in BVPS-2 ASME III specifications. The specifications addressed by this document are identified in Table 1.

## 3.0 REFERENCES

- 3.1 Title 10, Code Federal Regulations, Section 50.55a (10CFR50.55(a)) - Codes and Standards
- 3.2 ASME Boiler and Pressure Vessel Code, Section III - Division 1, 1971 Edition through 1980 Edition through Winter 1982 Addenda
- 3.3 ASME Boiler and Pressure Vessel Code, Section XI, 1980 Edition through Winter 1980 Addenda
- 3.4 BVPS-2, Final Safety Analysis Report
- 3.5 Project Procedure 2BVM-35, Codes and Standard Requirements for Category I Specification.

## 4.0 DEFINITIONS

- 4.1 ASME III - ASME Boiler and Pressure Vessel Code, Section III - Division 1 "Rules for Construction of Nuclear Power Plant Components."
- 4.2 ASME XI - ASME Boiler and Pressure Vessel Code, Section XI, "Rules for Inservice Inspection of Nuclear Reactor Coolant Systems."
- 4.3 ASME III Design Specification - The design specification shall contain sufficient detail to provide a complete basis for construction of an ASME III component. Subarticle NA/NCA-3250 of the applicable ASME III code identifies, in further detail, what design data are required to provide a complete basis for construction. The design

specification shall be certified to be correct and complete by a Registered Professional Engineer.

4.4 Other ASME III Specification - The other ASME III specifications contain applicable ASME III requirements for ASME III material, parts, etc procured for BVPS-2. These ASME III material, parts, etc will be installed into an ASME III component and, therefore, the specification must be reconciled with the ASME III design specification for the component(s). This specification is not certified by a Registered Professional Engineer.

4.5 Construction Permit - The construction permit issued for BVPS-2, by the NRC, is dated May 1984.

#### 5.0 GENERAL

5.1 BVPS-2 ASME III specifications are classified into two groups; i.e. ASME III design specifications and other ASME III specifications. ASME III design specifications are required for the construction of ASME III components. Other ASME III specifications are required for the procurement of ASME III material, parts, etc.

5.2 Each ASME III specification shall identify the specific ASME III Code edition/addenda that the ASME III items covered by the specification are constructed to. In addition, specific requirements of earlier or later edition/addenda of the ASME III Code and ASME III Code Cases may be used in the construction of an ASME III item providing the requirements of NA/NCA-1140 of the ASME III Code are met.

5.3 In general, in accordance with the requirements of 10CFR50.55a, the procurement date of ASME III items dictates the ASME III Code edition/addenda specified in the ASME III specification for the items. Paragraph NA/NCA-1140(a) states "Code editions become mandatory on July 1 of the publication year printed on the cover. Addenda may be used on or after the date of issue and become mandatory six months after the date of issue." The exceptions to this requirement are specifications 2BVS-22A, 2BVS-192, 2BVS-653, 2BVS-679, and 2BVS-977. These specifications invoke the 1977 Edition through Summer 1979 Addenda of the ASME III Code except for 2BVS-977 which invokes the 1971 Edition through Winter 1972 Addenda of the ASME III Code. The procurement dates for items covered by these specifications is 1981 or later. NCA-1140(a)(1) of the 1980 Edition of ASME III states, in part, "under the rules of this section, the owner

of his designee shall establish the Code Edition and Addenda to be included in the Design Specification."

- 5.4 The ASME III Code edition/addenda specified in the specification automatically invokes the associated ASME II Code edition/addenda for pressure-retaining materials used in the fabrication of the items covered by the specification. Due to availability, however, material manufactured to earlier or later ASME III requirements may be used providing the N-Certificate Holder certifies the use of this material satisfies the design requirements. Because the BVPS-2 ASME III specifications were generated over an extended period of time and the specific wording to certify the use of earlier/later materials has changed during that time period, the specification identifies the specific requirements for allowing the use of earlier/later material.

6.0 TABLE 1

- 6.1 Table 1 identifies all ASME III components, materials, parts, etc, procured for use at BVPS-2.
- 6.2 Table 1 consists of the following columns:
- 6.2.1 ASME Component/Part - Identifies the specification title and, where practical, the SWEC mark number of the items covered by the specification.
- 6.2.2 Specification No. - The specification numbers i.e. 2BVS-003, 2EVS-010, etc.
- 6.2.3 Design Specification (D/P) - Identifies the classification of the specification; i.e. D indicates an ASME III design specification and P indicates an ASME III parts specification.
- 6.2.4 Vendor - This is the name of the company the ASME items covered by the specification were procured from.
- 6.2.5 Applicable ASME Code Edition/Addenda - The ASME III edition(E)/addenda(A) identified in the Applicable Document section of the specification indicates the ASME III requirements the items covered by the specification are constructed to.
- 6.2.6 Applicable ASME III Code Deviations/Code Cases - Any requirements from earlier and/or later ASME III edition/addenda or code cases imposed on design and fabrication of the item

covered by the specification. These requirements or code cases are listed in the Applicable Documents section of the specification.

6.2.7 Remarks - Any information that may help clarify the ASME requirements for the items covered by the specification.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
A) Nuclear Steam Supply Systems- <u>ASME III, Class 1</u>	None (P.O. No. 2BV-1)		Westinghouse			
1) Reactor Vessel				1) 1971E-S72A	1) C/C 1401 (welding repairs to cladding).	
2) Steam Generator				2) 1971E-S72A	2) C/C 1355 (electro-slag welding).  C/C 1484 (SB-163 Ni-Cr-Fe alloy tubing).  C/C 1493-1 (post-weld heat treatment).  C/C 1526 (elimination of surface defects).  C/C 1528 (high strength SA-508 & SA-541 forgings).	
3) Pressurizer				3) 1971E-S72A	3) C/C 1528 (high strength SA-508 & SA-541 forgings).	
4) CRDM Housing				4a) 1971E-S72A	4a) C/C N-242-1 (materials certification).	
a) Full Length						
b) Part				4b) 1971E-W72A	4b) C/C N-242-1 (materials certification).	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
5) Reactor Coolant Pumps				5) 1971E-W72A		
6) Reactor Coolant Piping				6) 1971E-W72A	6) C/C 1423-2 (wrought type 304 & 316 with nitrogen added).	
7) Surge Lines				7) 1971E-W72A		
8) Valves						
a) Presurizer Spray				8a) 1971E-W72A		
b) M.O. Main Loop Isolation				8b) 1971E-W73A	8b) C/C 1552 (design by analysis valves).  C/C 1553-1 (upset heading & roll threading SA-453 bolting).  C/C 1649 (modified SA-453 Gr 660).	
c) M.O. Main Loop Bypass				8c) 1971E-W72A		
d) Other (M.O.)				8d) 1971E-S72A		

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
e) Manual (3" & larger)				8e) 1971E-S72A	8e) C/C 1501 (use of SA-453 bolting).  C/C 1553-1 (upset heading & roll threading of SA-453 bolting).  C/C N-3-10/1335-10 (requirements for bolting material).	
f) Control				8f) 1971E-S72A		
B) Associated ASME III Components- <u>ASME III, Class 2 &amp; 3</u>						
1) Accumulator				1) 1971E-W73A		1) The design specification defines that portion of the component support structure are subject to ASME III, NF requirements.
2) Letdown Heat Exchanger				2) 1974E		2) Same as 1 above
3) Regenerative Heat Exchangers				3) 1974E		3) Same as 1 above
4) Excess Letdown Heat Exchanger				4) 1974E-S74A		4) Same as 1 above
5) RHR Heat Exchanger				5) 1974E-S74A		5) Same as 1 above
6) Seal Water Heat Exchanger				6) 1974E-S74A		6) Same as 1 above



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Fuel Pool Heat Exchanger - ASME III, Class 3 2FNC*E21A,B	2BVS-003	Y	Jospeh Out & Sons, Inc.	1971E-S73A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Primary Component Cooling Water Pumps - ASME III, Class 3 2CCP+P21A,B,C	2BVS-Q10	Y	Ingersoll Rand Co.	1971E-S72A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Fuel Pool Cooling Pumps - ASME III, Class 3 2FNC*P21A 2FNC*P21B	2BVS-011	Y	Goulds Pumps, Inc.	1974E	1) SA-487, Gr. CA6NM material (1974E-S75A) used for case feet.  2) C/C 1677/N-82 (clarification of flange de- sign loads)	1) The specification defines that portion of the com- ponent support structure subject to ASME III, NF requirements.

ASME Component/Part	Spec. No.	Design Spec. (Y/F)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Recirculation Spray Coolers - ASME III, Class 2 2RSS*E21A,B,C,D	2BVS-012A	Y	Joseph Out & Sons, Inc.	1971E-S72A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Primary Component Cooling Water Heat Exchangers - ASME III, Class 3 2CCP*E21A,B,C	2BVS-012B	Y	Struthers Wells Corp.	1971E-S72A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Coc Cases	Remarks
Recirculation Pumps - ASME III, Class 2 2RSS*P21A,B,C,D	2BVS-015	Y	Bingham Williamette	1971E-W72A	1) Nc-5110 (1971E-W73A) for liquid penetrant examination	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Miscellaneous Check Valves 2 1/2 In. & Larger - ASME III, Class 283 VCW015-Y-2 VCW060-A-2 VCW150-X-2 VCW060-Y-2 VCW015-C-3 VCW090-A-2 VCW060-AA-2 VCW015-AS-3	2BVS-020	Y	Atwood & Morrill Co.	1974E-S74A	<p>1) SA-515, GR. 70 material (1974E-W74A) is an acceptable substitute for specified SA-515, Gr. 70 material.</p> <p>2) SA-182, Gr. F-6A CL 1 or 2 material (1977E-W78A) is an acceptable substitute for specified SA-182, Gr. F-6A material.</p>	<p>1) Pressure-retaining material may be procured to later than those addenda of ASME III dated July 1, 1974, in accordance with the provisions of ASME III, NA-1140 (F&amp;G) providing the Seller certifies that the material meets or exceeds the requirements of the applicable ASME III edition/addenda. Specific Engineers' approval is required if this certification cannot be made by the Seller.</p>
<i>No support structures</i>						

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME II' Code Deviations/Code Cases	Remarks
Insert Check Valves, 2 1/2 In. & Larger - ASME III, Classes 2 & 3 VCI015-A-3 VCI015-C-3	2BVS-022	Y	TRW Mission Manufacturing Co.	1974E	N/A	



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Insert Check Valves, 2 1/2 In. & Larger - ASME III, Classes 2 & 3 VC1015-X-3	2BVS-022A	Y	Clow Corp.	1977E-S79A	N/A	1) Pressure-retaining material shall be impact tested in accordance with Paragraph ND-2300.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Degasifiers - ASME III, Class 3 2BRS*EV21A, EV21B	2BVS-023	Y	Tower Iron Works	1974E	N/A	1) The degasifiers and the piping system in which these items are installed were downgraded to non- ASME III (non-nuclear safety-related) after fabrication.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Quench Pumps - ASME III, Class 2 2QSS*P21A,P21B	2BVS-024	Y	Bingham Willamette Co.	1971E-S72A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Miscellaneous Small Heat Exchangers - ASME III, Class 3 2BRS*E24A1 and A2, B1 and B2 2BRS*E21A, E21B 2BRS*E22A, E22B 2BRS*E23A, E23B 2NSS*E21	2BVS-031	Y	Atlas Industrial Manufacturing Co.	1971E-W72A	1) C/C 1567 (7018 welding elec- trodes) - applicable to 2BRS*E24A1 and A2, B1 and B2 only.	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Field Fabricated Tanks - ASME III, Classes 2 & 3 2QSS*TK21 2FWE*TK210 2CHS*TR21A, TK21B	2BVS-033	Y	RECO Con- structors, Inc.	1974E-W75A	N/A	1) No component supports are integral with the equipment design and, therefore, Subsection NF criteria is not applicable.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Quench & Recirculation Spray Nozzles - ASME III, Class 2	2BVS-048A	N	Spray Engineering Co.	1980E-W80A	N/A	1) These nozzles are being constructed to the requirements of the specified ASME III edition/addenda. These items shall be incorporated into the piping system which is constructed to ASME III 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939, "Piping Engineering and Design." The specified ASME III edition/addenda requirements have been compared to and reconciled with the applicable requirements of ASME III 1971E-W72A.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Shop Fabricated Vessels - ASME III, Classes 2 & 3 2CCP*TK21A, TK21B 2EGF*TK21A, TK21B 2GWS*TK21 2GWS*TK22A, TK22B, TK22C, TK22D 2NSS*TK21 2QSS*TK22 2CHS*DEM21A, DEM21B 2CHS*DEM22 2CHS*DEM23A, DEM23B 2EGF*TK22A, TK22B	2BVS-054	Y	National Annealing Box Co.	1974E (except for 2EGF*TK22A, TK22B which comply with 1974E-S76A)	N/A	1) The specification defines that portion of the com- ponent support structure subject to ASME III, NF requirements.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Shop Fabricated Piping - ASME III, Classes 1,2,&3 Various	2BVS-058	Y	Power Piping Co.	1971E-W72A	<p>1) NA-3700 (1974E- 1) W75A) for material manufacturers and material suppliers quality systems programs.</p> <p>2) NB-2400 (1977E- 2) S79A) for welding and brazing material.</p> <p>3) NB-2420 (1977E- W79A) for required tests.</p> <p>4) NB-4620 (1971E- W73A) for post-weld heat treatment.</p> <p>5) ASME II, Part C SFA 5.23 (1977E) for welding material.</p> <p>6) C/C N-292 (depositing weld metal prior to preparing ends for welding).</p>	<p>1) This specification, together with specifications 2BVS-59, 2BVS-920, and 2BVS-939 constitute a complete basis for construction of ASME III piping.</p> <p>2) Material may be procured to later edition/addenda of ASME III provided the later edition/addenda are acceptable in accordance with the latest issue of 10CFR50.55(a) and the applicable rules and regulations of the Commonwealth of Pennsylvania. Also, material manufacturers/suppliers are required to certify on their CMTR or C of C that the requirements of Appendix I of the later edition/addenda have not changed from the Appendix I of the specified ASME III.</p>



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Loose & Random Piping, Fittings, & Accessory Material, Stainless Steel & Carpenter 20 Steel - ASME III, Classes 1,2,&3	2BVS-058A	N	Guyon Alloys Inc.	1971E-W72A	N/A	<p>1) This loose and random piping material is being manufactured to the requirements of the specified ASME III edition/addenda. These items shall be incorporated into a piping system which is constructed to ASME III, 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939, "Piping Engineering and Design."</p> <p>2) Material may be procured to later edition/addenda of ASME III provided the later edition/addenda is acceptable in accordance with the latest issue of 10CFR50.55(a) and the applicable rules and regulations of the Commonwealth of Pennsylvania. Also, material manufacturers/suppliers are required to certify on their CMTR or C of C that the requirements of Appendix I of the later edition/addenda have not changed from the Appendix I of the specified ASME III.</p>

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Loose & Random Piping, Fittings, & Accessory Material, Carbon Steel, Cast Iron, Copper, etc - ASME III, Classes 1,2,&3	2BVS-058B	N	PBI Industries	1971E-W72A	N/A	<p>1) This loose and random piping material is being manufactured to the requirements of the specified ASME III edition/addenda. These items shall be incorporated into a piping system which is constructed to ASME III, 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939, "Piping Engineering and Design."</p> <p>2) Material may be procured to later edition/addenda of ASME III provided the later edition/addenda is acceptable in accordance with the latest issue of 10CFR50.55(a) and the applicable rules and regulations of the Commonwealth of Pennsylvania. Also, material manufacturers/suppliers are required to certify on their CMTR or C of C that the requirements of Appendix I of the later edition/addenda have not changed from the Appendix I of the specified ASME III.</p>

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Design & Fabrication of Power Plant Piping Supports - ASME III, Classes 1,2,& 3  Integral welded attachment only	2BVS-059	Y	Power Piping Co.	1971E-S73A	1) CC/N-224 (use of A-500 Gr. B & A501 structural tubing for welded attachments to Classes 2&3 piping).  2) C/C 1677/N-82 (clarification of flange design loads).	1) This specification, together with specifications 2BVS-59, 2BVS-920, and 2BVS-939 constitute a complete basis for construction of ASME III piping.  2) Material may be procured to a later edition/addenda of ASME III provided the later edition/addenda are acceptable in accordance with the latest issue of 10CFR50.55(a) and the applicable rules and regulations of the Commonwealth of Pennsylvania. Also, material manufacturers/suppliers are required to certify on their CMTR or C of C that the requirements of Appendix I of the later edition/addenda have not changed from the Appendix I of the specified ASME III.

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ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Permanent Strainers, Simplex & Y-Type - ASME, Classes 2 & 3 2SWS*STR25,26 2SWS*STR43,84 2SWS*STR8,9,10 2SWS*STR39,40,41, 42	2BVS-063	N	Leslie Co.	1971E-S73A	N/A	1) These strainers are being constructed to the requirements of the specified ASME III edition/addenda. These items shall be incorporated into the piping systems which are constructed to ASME III 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939 "Piping Engineering and Design." The specified ASME III edition/addenda requirements have been compared to and reconciled with the applicable requirements of ASME III, 1971E-W72A.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Forged Carbon Steel Valves, 2 In. & Smaller - ASME III, Classes 2 & 3 VCS060-A-2 VCS060-A-3 VSC060-B-3 VCS150-C-3 VGS060-B-2 VGS060-B-3 VDS060-C-2 VDS060-C-3 VDS150-G-3	2BVS-064	Y	Dresser Industries, Inc.	1971E-S73A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Forged Carbon Steel Valves, 2 In. & Smaller - ASME III, Classes 2 & 3 VCS060-AZ-1 VCS060-AZ-3 VSC060-BZ-3 VCS150-CZ-3 VGS060-BZ-3 VGS060-B-2 VDS060-BZ-3 VDS060-CZ-2 VDS060-C-2 VDS060-CZ-3 VDS150-GZ-3	2BVS-064A	Y	Vogt Engi- neering Co. Inc.	1977E-S79A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Reactor Containment Liner and Mat Embedments - ASME III, Class 2 and NC ASME III Items: Fuel Transfer Tube Expansion Bellows Emergency Air Lock Equalizing Valves Personnel Air Lock Piping Penetrations	2BVS-065	Y	Pittsburgh-DesMoines Corp.	1971-E-W72A (except for Emergency Air Lock Equalizing valves which comply with 1977E-W77A)	<ol style="list-style-type: none"> <li>1) C/C 1330-3 (Fuel Transfer Tube Expansion Bellows)</li> <li>2) C/C 1177 (Fuel Transfer Tube Expansion Bellows)</li> <li>3) A duplicate bellow shall be required for pressure and fatigue testing by the contractor in accordance with ASME III (1974E-W74A) Paragraph NE-3365.2(e)(2) modified.</li> </ol>	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Stainless Steel Valves, 2 1/2 In. & Larger - ASME III, Classes 2 & 3 VCFO15-X-2 VCFO15-X-3 VCWO15-X-2 VCWO15-X-3 VGWO15-X-3 VGWO15 Y-2 VGWO60-X-2 VOWO30-S-2	2RVS-066	Y	Walworth Co.	1971E-W72A	<ol style="list-style-type: none"> <li>1) C/C N-140 (bonnet bolting)</li> <li>2) C/C 1672 (nuclear valves for Classes 1, 2, &amp; 3 construction)</li> </ol>	1) Pressure-retaining material may be procured to a later ASME III edition/addenda in accordance with the provision of ASME III, NA-1140 (F&G) providing the Seller certifies that the material meets or exceeds the specified ASME III edition/addenda requirements.



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Ball Valves - All Sizes, Manual & Motor-Operated - ASME III, Class 2 & 3	2BVS-067	Y	Contromatics	1971E-S73A	1) C/C 1672 (nuclear valves for Classes 1, 2, & 3 construction)	1) Pressure-retaining material may be procured to a later ASME III edition/addenda in accordance with the provisions of ASME III, NA-1140 (F&G).
VBFO15-Y-2						
VBFO15-Y-3						
VBSO15-Y-2						
VBSO15-Y-3						
VBSO15-YA-3						
VBSO15-Z-2						
VBSO15-Z-3						
VBSO15-ZA-2						
VBWO15-B-3						
VBWO15-X-2						
VBWO15-X-3						
VBWO15-XA-2						
VBWO15-Y-2						
VBWO15-Y-3						
2HVR*DMP206						
2BRS*MOV100A,B						
2HCS*MOV110A,B						
2HCS*MOV112A,B						
2HCS*MOV113A,B						
2HCS*MOV116						
2HCS*MOV117						
2CCP*MOV118						
2CCP*MOV119						
2CCP*MOV120						
2SWS*MOV170A,B						

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Butterfly Valves, Flanged & Wafer Type - ASME III, Classes 2 & 3 VVFO15-A-3 VVFO15-A-3-C VVFO15-GR-2 VVIO15-AR-2 VVIO15-AR-3 VVIO15-A-3	2BVS-069	Y	Henry Pratt Co.	1971E-W72A	1) C/C 1567 (7018 welding electrodes) 2) C/C 1516-2 (valve seats) 3) C/C 1702 valves larger than 14 in.)	1) Pressure-retaining material may be procured to a later ASME III edition/addenda in accordance with the provisions of ASME III, NA-1140 (F&G).

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Temporary Strainers, Y-Type, 6 In. & Smaller - ASME III, Classes 2 & 3 2FWE*STRT100 2FWE*STRT101 2CHS*STRT103 2CHS*STRT104 2BRS*STRT110 2BRS*STRT111 2CHS*STRT105 2CHS*STRT106 2CHS*STRT107 2FNC*STRT108 2FNC*STRT109	2BVS-072B	N	Permutit Co.	1974E-W76A	N/A	1) These strainers are being constructed to the requirements of the specified ASME III edition/addenda. These items shall be incorporated into the piping system which is constructed to ASME III, 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939, "Piping Engineering and Design". The specified ASME III edition/addenda requirements have been compared to and reconciled with the applicable requirements of ASME III, 1971E-W72A.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Carbon Steel Valves, 2 1/2 In. & Larger - ASME III, Classes 2 & 3 VCFO15-C-3 VCWO15-A-3 VCWO60-A-2 VCWO60-A-3 VGFO15-B-3 VGWO15-A-3 VGWO60-A-2 VGWO60-A-3 VOWO15-A-3	2BVS-073	Y	Walworth Co.	1971E-572A	1) C/C 1567 (weld filler metal) 2) C/C 1672 (name- plate and data report	1) Pressure-retaining material may be procured to a later ASME III edition/addenda in accordance with the provisions of ASME III, NA-1146 (F&G) provided the Seller certifies that the material meets or exceeds the specified ASME III editon/addenda addenda material specifi- requirements.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Carbon Steel Valves, 2 1/2 In. & Larger - ASME III, Classes 2 & 3 VCW015-AZ-3 VCW060-AZ-3 VGW015-AZ-3 VGFO15-AZ-3 VGW060-AZ-2 VGW060-AZ-3 VDW015-AZ-3	2BVS-073A	Y	Velan Valve	1977E-S79A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Forged Stainless Steel Valves, 2 In. & Smaller - ASME III, Classes 2 & 3 VCS015-X-2 VCS015-X-3 VGS015-A-2 VGS015-A-3 VGS015-Z-2 VGS060-Y-2 VDS060-W-2 VDS060-W-3 VDS150-X-2 VDS150-X-3	2BVS-075	Y	Velan Valve Co.	1971E-S72A	1) C/C 1672 (Nameplate and Data Report).	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Motor-Operated Butterfly Valves, Flanged & Wafer Type - ASME III, Classes 2 & 3 2SWS*MOV102A,B,C, C, 2CCP*MOV150-1,-2, 151-1,-2 2CCP*MOV156-1,-2, 157-1,-2 2SWS*MOV152-1,-2, 153-1,-2 2SWS*MOV154-1,-2, 155-1,-2 2SWS*MOV160,161, 162,163 2SWS*MOV164,165, 166,167 2CCP*MOV175-1,-2, 176-1,-2 2CCP*MOV177-1,-2, 178-1,-2 2CCP*MOV173 2CCP*MOV128A,B 2HVC*MOD204A,B 2SWS*MOV120A,B 2SWS*MOV103A,B 2SWS*MOV106A,B 2SWE*MOV116A,B 2RSS*MOV155A,B,C,D	2BVS-076	Y	Henry Pratt Co.	1971E-W72A	1) C/C 1516-2 (welding of seats or minor internal permanent attachments in valves). 2) C/C 1567 (7018 welding elec- trodes). 3) C/C 1702-1 pressure rating for 30 in. and larger).	1) Pressure-retaining material may be procured to a later ASME III edition/addenda than specified providing the provisions of NA-1140 (f) & (g) of ASME III are met.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Motor-Operated Butterfly Valves, Flanged & Wafer Type - ASME III, Classes 2 & 3 2HVC*MOD201A,B,C,D 2HVR*MOD23A,B 2HVR*MOD25A,B 2SWS*MOV148A,B 2CCP*MOV103A,B,C 2CCP*MOV114 2SWS*MOV101A,B 2SWS*MOV107A,B,C,D 2CCP*MOV112A,B	2BVS-076A	Y	Posi-Seal Internat- ional Corp.	1974E-S76A	N/A	



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Motor-Operated Cast Carbon Steel Valves, 2 1/2 In. & Larger - ASME III, Classes 2 & 3 2SWS*MOV104A,B,C,D 2SWS*MOV105A,B,C,D 2SWS*MOV113A,B,C,D	2BVS-077	Y	Walworth Co.	1971E-W72A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Diaphragm Valves - 2BVS-081 ASME III, Classes 2 & 3 VDS015-E-2 VDS015-E-3 VDS015-C-3 VDW015-C-3 VDW015-YY-3		Y	ITT Grinnell	1977E-W77A	1) C/C 1540-2 (elastomer)	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Manual & Motor Operated Stainless Steel Valves 2 1/2 In. & Larger - ASME III, Classes 2 & 3 2QSS*MOV100A,B 2QSS*MOV101A,B 2QSS*MOV102A,B 2RSS*MOV154C,D 2CHS*MOV111 2RSS*MOV156A,B,C,D	2BVS-082A	Y	Anchor/ Darling Valve Co.	19bGE-W80A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Hermetically Sealed Globe Valves and Soft Check Valves - ASME III, Classes 2 & 3 VCS060-J-3 VSS150-A-2 VSS150-A-3 VSS150-B-2 VSS150-X-3 VSS200-R-2 VSS200-R-3 VSS150-B-3 VCS060-J-2	2BVS-083	Y	Kerotest Manufacturing Co.	1977E	1) C/C 1539-1 (metal bellows and metal diaphragm).	1) Pressure-retaining material may be procured to a later ASME III edition/addenda in accordance with the provisions of ASME III, NA-1140 (F&G), provided the Seller certifies that the material meets or exceeds the specified ASME III requirements. edition/addenda material

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Plug Valves, All Sizes - ASME III, Classes 2 & 3	2BVS-091	Y	Xomox Corp.	1974E	N/A	
VPW015-AW-3						
VTW015-B-3						
2SWM*MOV562,563 564,565						
2CHS*MOV100A,B						
2IAC*MOV130						
2IAC*MOV133						
2IAC*MOV134						
2CHS*MOV110A,B						
2HCS*MOV112A,B						
2HCS*MOV120A,B						

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Feedwater Isolation Trip Valves - ASME III, Class 2 2FWS*HYV157A.B.C	2BVS-092	Y	Borg-Warner, Nuclear Valve Div.	1977E-577A	1) NB-2420(c)&(f) (1977E-W79A) for testing of electrodes.	

TABLE 1

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Degasifier Circulation Pumps/Fire Water Booster Pump and Control Room Refrigerant Condenser Recirculation Pumps - ASME III, Class 3 2BRS-P22A.B 2SWS-P25A.B 2FWS-P36	2BVS-094	Y	Gould Pump, Inc.	1971E-W72A	1) C/C 1677 (flange design)	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Self-Cleaning Strainers - ASME III, Class 3 2SWS*STR-M-47,48	28VS-098A	Y	Zurn Industries, Fluid Handling Div.	1977E-S77A	N/A	1) The specification defines that portion of the com- ponent support structure subject to ASME III, NF requirements.



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Quench Spray Chemical Injection Pumps - ASME III, Class 3 2055*P24A.B	28VS-135	Y	Crane-Deming Pumps	1980E-581A	N/A	1) The specification defines that portion of the component support structure subject to ASME III, NF requirements.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Refrigerant Condensing Units - ASME III, Class 3 2HVC*REF24A,24B	2BVS-160	Y	Carrier Air Conditioning Co.	1974E	1) C/C 1634-1 (use of SB-359 material)	<p>1) The specification defines that portion of the component support structure subject to ASME III, NF requirements.</p> <p>2) Materials manufactured to later edition/addenda of the specified ASME III Code may be used providing the N-Certificate Holder for the items being furnished reconcile the material requirements of the later edition/addenda used with the design requirements of the item being furnished. The signature of the N-Certificate Holder and his ANI on the ASME III Data Report signifies their acceptance of the material used.</p>

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Air Cooling Coils ASME III, Class 3 2HVR*CLC201A,B,C 2HVR*CLC206A,B 2HVR*CLC265A,B	2BVS-176	Y	American Air Filter Co., Inc.	1974E-W74A	1) C/C 1644-4 (use of A-307 material)	1) Materials manufactured to later edition/addenda of the specified ASME III Code may be used provided the N-Certificate Holder for the items being furnished reconcile the material requirements of the later edition/addenda used with the design requirements of the items being furnished. The signature of the N-Certificate Holder and his authorized nuclear code inspector on the ASME III Data Report signifies their acceptance of the material used.  2) No component supports are integral with the equipment design and, therefore, Sub-section NF criteria is not applicable.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Central Station Air Conditioning Units - ASME III, Class 3 2HVC*ACU201A,B 2HVC*ACU208A,B 2HVC*ACU207A,B 2HVC*CLC219	2BVS-179	Y	Carrier Air	1974E-W74A	N/A	1) No component supports are integral with the equipment design and, therefore, Subsection NF criteria is not applicable.

*AC unit itself is not ASME III*

*clm/h*

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Self-Contained Air Conditioning Units - ASME III Class 3 2HVP*ACU301	2BVS-192	Y	Ellis & Watts	1977E-S79A	N/A	1) No component supports are integral with the equipment design and, therefore, Sub- section NF criteria is not applicable.

ASME Component/Part	Spec. No	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Steam Generator Auxiliary Feed Pumps & Drivers - ASME III, Class 3 2FWE*P22 2FWE*P23A,B	2BVS-208	Y	Bingham- Willamette Co.	1971E-573A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
E/H Actuated Valves - ASME III, Class 2 & 3 2FWE*HCV100A,B,C, D,E,F 2CCP*DCV100-1,-2 2SVS*PCV101A,B,C 2SVS*HCV104	2BVS-209A	Y	Copes Vulcan Co.	1980E-SB1A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Main Steam Line Trip Valves - ASME III, Class 2 2MSS-HYV101A,B,C	2BVS-211	Y	FSD System Div. of Gulf & Western Mfg. Co.	1974E	N/A	



TABLE 1

ASME Component/Part	Spec. No.	Destirn Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Service Water Pumps - ASME III, Class 3 2SWS-P21A,B,C	2BVS-224	Y	Byron Jackson Div. of Borg Warner Corp.	1971E-W72A	1) C/C N-146-1	(hydrostatic testing and stamping).

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Main Steam Safety Valves - ASME III, Class 2 2MSS*SV101A,B,C 2MSS*SV102A,B,C 2MSS*SV103A,B,C 2MSS*SV104A,B,C 2MSS*SV105A,B,C	2BVS-225	Y	Crosby Valve & Gage Co.	1971E-S73A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Emergency Diesel Generator Sets - ASME III, Class 3	2BVS-230	Y	Colt Industries	19.4E-S74A	N/A	1) Some components (piping, tanks, valves, pumps, etc) which are part of the Emergency Diesel Generator Sets are designed and constructed to ASME III, Class 3 (ND) criteria. The component supports applicable to these ASME III components are designed and constructed to Subsection NF criteria.
<p>Engine Starting Systems</p> <p>2EGA*TK21A,B</p> <p>2EGA*TK22A,B</p> <p>Shutdown Air Tank Piping &amp; valves from compressor discharge check valve to and including the air start solenoid valves, the shutdown solenoid valves, and the up to the air start valves.</p> <p>Cooling Water System</p> <p>2EGS*TK1A,B</p> <p>2EGS*E21A,B</p> <p>2EGS*E22A,B</p> <p>2EGS*E23A,B</p> <p>2EGS*P23A,B</p> <p>Engine-mounted cooling water piping &amp; valves (partial)</p>						<p><i>only some components</i></p>

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
<u>Lubrication System</u>						
2EG0*STR22A.B						
2EG0*STR23A.B						
2EG0*E24A.B						
2EG0*FLT21A.B						
<u>Fuel Oil</u>						
<u>Supply System</u>						
2EGF*P22A.B						
2EGF*STR39.40. 41. 42						
<u>Piping of diesel generator from oil storage tank to diesel.</u>						

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Stainless Steel Expansion Joints - ASME III, Class 3 2SWS*EJM224A,B,C,D 2SWS*EJM225A,B,C,D 2SWS*EJM237A,B 2SWS*EJM222A,B,C 2SWS*EJM214A,B,C 2SWS*EJM230A,B 2SWS*EJM221A,B	2BVS-240	N	Pathway Bellows, Inc.	1974E-W75A	N/A	1) These expansion joints are being constructed to the requirements of the specified ASME III edition/ addenda. These items shall be incorporated into the piping systems which are constructed to ASME III, 1971E-W72A requirements as defined in ASME III Design Specification 2BVS- 939, "Piping Engineering and Design." The specified ASME III edition/addenda requirements have been com- pared to and reconciled with the applicable re- quirements of ASME III, 1971E-W72A.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Fuel Oil Transfer Pumps - ASME III, 2EGF*P21A.B.C.D	2BVS-245	Y	Gould Pumps, Inc.	1977E	N/A	1) No component supports are integral with the equipment design and, therefore, Subsection NF criteria is not applicable.

*in-line pump*

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Electrical Penetrations - ASME III, Subsection NE, Class MC	2BVS-317	Y	Westinghouse Electric Corp.	1974E	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Cartridge Type Liquid Filters - ASME III, Classes 2 & 3	2BVS-517	Y	Commercial Filter Division	1971E-S73A	N/A	



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Design, Fabrication, & Erection of Intake Structure Piping - ASME III, Class 3	BVS-553	Y	Schneider Power Corp.	1971E W711	N/A	1) This specification, to- gether with specification BVS-100 and BVS-059, con- stitute a complete basis for construction of ASME III piping covered by the specification.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Orifice Plates - ASME III, Classes 2 & 3 Various	2BVS-602	N	Permutit	1980E-SB1A	N/A	1) These orifice plates are being constructed to the requirements of the specified ASME III edition/addenda. These items shall be incorporated into piping systems which are constructed to ASME III, 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939, "Piping Engineering and Design." The specified ASME III edition/addenda requirements have been compared to and reconciled with the applicable requirements of ASME III, 1971E-W72A.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
ASME Venturi Tubes and Flow Nozzles - ASME III, Classes 2 & 3 2RSS*FE157A,B,C,D 2CCP*FE106A,B,C	2BVS-606	N	General Signal	1980E-S80A	N/A	1) These venturi tubes and flow nozzles are being constructed to the require- ments of the specified ASME III edition/addenda. These items shall be incor- porated into piping systems which are constructed to ASME III, 1971E-W72A re- quirements as defined in ASME III Design Specifici- cation 2BVS-939, "Piping Engineering and Design." The specified ASME III edition/addenda require- ments have been compared to and reconciled with the applicable requirements of ASME III, 1971E-W72A.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Cavitating Venturis - ASME III, Class 2 2FWE*FE101AS,BS,CS 2FWE*FE101A,B,C	2BVS-608	N	Permutit	1980E-W80A	N/A	1) These venturi are being constructed to the requirements of the specified ASME III edition/addenda. These items shall be incorporated into piping systems which are constructed to ASME III, 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939, "Piping Engineering and Design." The specified ASME III edition/addenda requirements have been compared to and reconciled with the applicable requirements of ASME III, 1971E-W72A.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Derivations/ Code Cases	Remarks
Air Operated Control Valves - ASME III, Classes 2 & 3	2BVS-651	Y	Masonellan Internation- al Inc.	1971E-573A	1) ASME II, Part C 1) (1974) for welding rods, electrodes, and filler material.	1) If the Seller cannot supply material manufactured to the specified ASME III edition/addenda the Seller shall certify the material by adding the following statement on the applicable CMTR:  "This material has been evaluated and either meets or exceeds the require- ments of ASME III."  This statement shall be signed and dated by a re- sponsible representative of the Seller.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Pump Recirculating Valves - ASME III Class 3 2FWE*FCV122 2FWE*FCV123A.B	2BVS-653	Y	Yarway Corp.	1977E-S79A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Safety & Relief Valves - ASME III Classes 2 & 3 Various	2BVS-657	Y	Dresser Industrial Valve & Instrument Co.	1974E-574A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Bellows Sealed Control Valves - ASME III, Classes 2 & 3	2bVS-666A	Y	ITT Hammel Dahl/Cono Flow	1974E-S76A	N/A	



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Case	Remarks
Instrument & Manifold Valve Assemblies - ASME III, Classes 2 & 3 Various	28VS-673	Y	Anderson Greenwood Co., Inc.	1977E-S77A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Hermetically Sealed Instrument Valves - ASME III, Classes 2 & 3 Various	2BVS-679	Y	Hoke, Inc.	1977E-S79A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Solenoid Operated Valves - ASME III, Classes 2 & 3 (see specification for mark numbers)	2BVS-719	Y	Target Rock Corp.	1980E-S81A	N/A	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Instrumentation Flexible Metal Hose Subassemblies ASME III, Classes 2 & 3 2SWS*HOSE21A,B, 22A,B, 2CCP*HOSE21A,B,C 24A,B 26B,C 2CCP*HOSE22A,B,C 2CCP*HOSE23A,24C, 25A,C 2CCP*HOSE23C 2CCP*HOSE23B,25B 2CCP*HOSE26A 001-999	2BVS-756	N	Metal Bellows Corp.	1980E-WB1A	<p>1) C/C N-192-2 (use of braided flexible connectors)</p> <p>2) C/C N-1881-1 (use of Ni-Fe-Mo-Cu &amp; Ni-Cr-Mo-Cb alloy tubing)</p>	<p>1) These hose subassemblies are being constructed to the requirements of the specified ASME Code. These items shall be incorporated into piping systems which are constructed to ASME III 1971E-W72A requirements as defined in ASME III Design Specification 2BVS-939, "Piping Engineering and Design." The specified ASME III Code requirements have been compared to and reconciled with the applicable requirements of ASME III, 1971E-W72A.</p> <p>2) If the Seller cannot supply material manufactured to the specified ASME III Code, the Seller shall certify the material by adding the following statement on the applicable CMTR:</p> <p>"This material has been evaluated and either meets or exceeds the requirements of ASME III."</p> <p>This statement shall be signed and dated by a responsible representative of the Seller.</p>

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Field Fabrication & Erection of Piping - ASME III, Classes 1,2,83	2BVS-920	Y	Schneider Power Corp.	1971-E-W72A	<p>1) ASME II, Part C (1974E) for welding rods, electrodes, and filler materials.</p> <p>2) NB-4620 (1971E-W73A) for post weld heat treatment.</p> <p>3) NB/NC/ND Fig. 4427-1 (1980-W81A) for fillet and socket weld dimensions.</p> <p>4) NB/NC/ND-4435 (1974E-S76A) for welding of temporary and minor permanent attachments.</p> <p>5) NB/NC/ND-4436 (1974E-S76A) for installation of attachments after testing.</p> <p>6) ND-4231.2 (1974E) for temporary attachments and their removal.</p> <p>7) NCA-8000 (1980E-W82A) for certification, stamping, &amp; preparation of Code Data</p>	<p>1) This specification, together with specifications 2BVS-58, 2BVS-59, and 2BVS-939 constitute a complete basis for construction of ASME III piping.</p> <p>2) Material manufactured to later edition/addenda of the specified ASME III Code may be used provided the N-Certificate Holder for the item being furnished reconcile the material requirements of the items being furnished. The signature of the N-Certificate Holder and his ANI on the ASME III Data Report signifies their acceptance of the material used.</p>

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
					Reports.	
					8) C/C N-32-3 (hydrostatic testing of em- bedded Class 2 & 3 piping).	
					9) C/C N-32-4 (hydrostatic testing of em- bedded Class 2 & 3 piping).	
					10) C/C N-224 (use of A-500 Gr. B & A-501 struc- tural tubing for welded at- tachments to Classes 2 & 3 piping).	
					11) C/C N-237 (hydrostatic testing of internal piping).	
					12) C/C N-240 (hydrostatic testing of open ended piping).	
					13) C/C N-275 (repair of welds).	
					14) ASME IX (1977- S77A) for welding and brazing qualifi- cations on pipe rupture re- straints only.	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME II* Code Edition, Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
					15) ASME XI (1980E-W80A) for rules for in-service in- spection of nuclear power plants.	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Installation of Heating & Cooling Systems - ASME III Class 3	2BVS-934	Y	Schneider Power Corp.	1971E-W72A	1) ASME II, Part C 1) (1974E) for welding rods, electrodes, and filler materials.	1) This specification toge- ther with 2BVS-58, 2BVS-59, and 2BVS-939, constitute a complete basis for con- struction of ASME III heating and cooling system piping.



ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/Code Cases	Remarks
Piping Engineering & Design - ASME III, Classes 1,2,&3	2BVS-939	Y	SWEC	1971E-W72A	<ol style="list-style-type: none"> <li>1) ASME XI (1980E-W80A) for rules for in-service inspection of nuclear power plants.</li> <li>2) C/C 1606-1 (stress criteria, Classes 2&amp;3 piping subject to upset, emergency, and faulted operating conditions).</li> <li>3) C/C N-122 (stress indices for structural attachments, Class 1).</li> <li>4) C/C N-224 (use of A-500, and A-501 structural tubing for welded attachments to Classes 2 &amp; 3 piping).</li> </ol>	1) This specification, together with specifications 2BVS-58, 2BVS-59, and 2BVS-920, constitute a complete basis for construction of ASME III piping.

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Pipe Classes ASME III, Classes 1,2,&3	2BVS-939A	N	N/A	1971E thru 1980E -WB2A	1) C/C N-253-1 (carbon steel material used at elevated temperatures)	

ASME Component/Part	Spec. No.	Design Spec. (Y/N)	Vendor	Applicable ASME III Code Edition/Addenda	Applicable ASME III Code Deviations/ Code Cases	Remarks
Installation of Instruments - ASME III, Classes 2 & 3	2BVS-977	Y	Schneider Power Corp.	1971E-W72A		1) Materials manufactured to later edition/addenda of the specified ASME III Code may be used provided the N-Certificate Holder for the items being furnished reconcile the material re- quirements of the later edition/addenda used with the design requirements of the item being furnished. The signature of the N- Certificate Holder and his ANI on the ASME III Data Report signifies their ac- ceptance of the material used.